


Alberto Ursino

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Skills

- Python | Java | C++ | HTML5 | CSS | LaTeX | JavaScript | SQL | Django | TensorFlow | Pandas | scikit-learn
- Git | Linux | VSCode | [Fork](#) | Poetry | Ruff | DVC | Docker | AWS | MySQL | GitHub | BitBucket | Jira | Slack
- Coding | CI/CD | AI/ML | Data Pipelines | Algorithms | Backend | DevOps | MLOps | Agile | Italian, English

Experience

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| ML Engineer, Intern | <u>Infineon Technologies</u> | <i>Villach, Austria</i> 12.2023 - 06.2024 |
| <ul style="list-style-type: none">• Integrated an existing DL pipeline into the company's ML framework as pilot for defect image classification using Python, Tensorflow, DVC, Amazon S3, and MLflow as part of the IPCEI project• Led the enhancement of the DL pipeline by refactoring code, updating packages and functions for optimal performance, and incorporating new features based on user requirements• Introduced new coding practices and enhanced the Git workflow for the DL pipeline. Implemented a structured branching and merging strategy, taught how to conduct effective code reviews, and established a systematic approach to document updates in Jira and Bitbucket• Prepared detailed documentation on Confluence on how to use and work with the DL pipeline, delivered presentations at meetings, and engaged in frequent knowledge exchange with experts | | |
| Data Engineer, Intern | <u>Infineon Technologies</u> | <i>Villach, Austria</i> 09.2023 - 12.2023 |
| <ul style="list-style-type: none">• Developed a key chunk-based method for reading large CSV files (containing wafer test data) using Python and Pandas, enabling the upload and download of large files without memory crashes• Developed a communication framework using Python that facilitates interaction between the company's software applications and Windows shared drives, allowing to download files from code by specifying their paths• Implemented and tested an automated system for generating wafer test datasets at predefined intervals, serving as a crucial component for an upcoming software application• Developed and tested several CRUD operations using FastAPI and SQLAlchemy, improved and implemented new frontend components in Streamlit, and tested OpenShift functionalities alongside Docker to establish a foundation for future microservices development• Extensively used Git and Bitbucket for version control, meticulously documented all work in Jira and Confluence, and regularly presented software updates to data scientists and product engineers | | |
| Data Scientist, Intern | <u>Swegon</u> | <i>Venice, Italy</i> 04.2023 - 07.2023 |
| <ul style="list-style-type: none">• Developed an ML pipeline using Python, DVC and scikit-learn, with the goal of studying the feasibility of introducing anomaly detection in heat pump units• Built a clustering algorithm to detect anomalies (outliers) in multi-dimensional time-series datasets• Presented the project's potential to the entire staff, who are now actively working together with Statwolf to advance its development, with the goal of deploying the system into production in the near future | | |
| Software Engineer | <u>Gloob ETF</u> | <i>Treviso, Italy</i> 06.2022 - 06.2023 |
| <ul style="list-style-type: none">• Developed Portafoglio Protetto, a Django-based financial web application designed for investors. The platform has +500 registered users and is designed to recommend high-performing securities• Worked with a former university colleague in an agile environment to translate client requirements into functional features using Python, while managing tasks and progress with Trello | | |

Education

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| Master of Science | <u>University of Padua</u> | <i>Padua, Italy</i> 09.2021 - 07.2024 |
| <ul style="list-style-type: none">• Computer Engineering - Artificial Intelligence & Robotics• Master's Thesis: <i>Computational Approaches for Anomaly Detection in Heat Pump Units</i> | | |
| Bachelor of Science | <u>University of Padua</u> | <i>Padua, Italy</i> 09.2017 - 07.2021 |
| <ul style="list-style-type: none">• Computer Engineering• Bachelor's Thesis: <i>Automatic Reconstruction of Dog Poses from 2D Movies</i> | | |